

1
2 **CLAIMS**

3 1. A multi-media processing method comprising:
4 providing multiple tracks each of which being capable of being associated
5 with one or more digital data streams; and
6 representing the multiple tracks as a single track.

7
8 2. The method of claim 1, wherein said act of representing comprises
9 representing at least one transition between at least two of the multiple tracks.

10
11 3. One or more computer-readable media having computer-readable
12 instructions thereon which, when executed, implement the method of claim 2.

13
14 4. A computer system embodying the computer-readable medium of
15 claim 3.

16
17 5. The method of claim 1, wherein said act of representing comprises
18 representing at least one effect applied to at least one of the multiple tracks.

19
20 6. One or more computer-readable media having computer-readable
21 instructions thereon which, when executed, implement the method of claim 5.

22
23 7. A computer system embodying the computer-readable medium of
24 claim 6.

1 **8.** The method of claim 1, wherein said act of representing comprises
2 representing at least one transition between at least two of the multiple tracks and
3 at least one effect applied to at least one of the multiple tracks.

4
5 **9.** One or more computer-readable media having computer-readable
6 instructions thereon which, when executed, implement the method of claim 8.

7
8 **10.** A computer system embodying the computer-readable medium of
9 claim 9.

10
11 **11.** The method of claim 1, further comprising operating upon said
12 single track by applying at least one transition between at least two of the multiple
13 tracks.

14
15 **12.** One or more computer-readable media having computer-readable
16 instructions thereon which, when executed, implement the method of claim 11.

17
18 **13.** A computer system embodying the computer-readable medium of
19 claim 12.

20
21 **14.** The method of claim 1 further comprising operating upon said
22 single track by applying at least one effect to at least one of the multiple tracks.

1 **15.** One or more computer-readable media having computer-readable
2 instructions thereon which, when executed, implement the method of claim 14.

3
4 **16.** A computer system embodying the computer-readable medium of
5 claim 15.

6
7 **17.** The method of claim 1, further comprising operating upon said
8 single track by applying at least one transition between at least two of the multiple
9 tracks, and at least one effect to at least one of the multiple tracks.

10
11 **18.** One or more computer-readable media having computer-readable
12 instructions thereon which, when executed, implement the method of claim 17.

13
14 **19.** A computer system embodying the computer-readable medium of
15 claim 18.

16
17 **20.** One or more computer-readable media having computer-readable
18 instructions thereon which, when executed, implement the method of claim 1.

19
20 **21.** A computer system embodying the computer-readable medium of
21 claim 20.

1 **22.** A method comprising:
2 providing multiple tracks each of which being capable of being associated
3 with one or more digital data streams; and
4 grouping a particular set of operations on the tracks to provide a group
5 upon which operations can be performed that do not affect tracks that are not in
6 the group.

7
8 **23.** The method of claim 22 further comprising operating on said tracks
9 using said particular set of operations.

10
11 **24.** One or more computer-readable media having computer-readable
12 instructions thereon which, when executed, implement the method of claim 23.

13
14 **25.** A computer system embodying the computer-readable medium of
15 claim 24.

16
17 **26.** The method of claim 22 further comprising operating on said tracks
18 using said particular set of operations, wherein said particular set of operations
19 comprise at least an effect.

20
21 **27.** One or more computer-readable media having computer-readable
22 instructions thereon which, when executed, implement the method of claim 26.

1 **28.** A computer system embodying the computer-readable medium of
2 claim 27.

3
4 **29.** The method of claim 22 further comprising operating on said tracks
5 using said particular set of operations, wherein said particular set of operations
6 comprise at least a transition.

7
8 **30.** One or more computer-readable media having computer-readable
9 instructions thereon which, when executed, implement the method of claim 29.

10
11 **31.** A computer system embodying the computer-readable medium of
12 claim 30.

13
14 **32.** The method of claim 22 further comprising operating on said tracks
15 using said particular set of operations, wherein said particular set of operations
16 comprise at least an effect and a transition.

17
18 **33.** One or more computer-readable media having computer-readable
19 instructions thereon which, when executed, implement the method of claim 32.

20
21 **34.** A computer system embodying the computer-readable medium of
22 claim 33.

1 **35.** One or more computer-readable media having computer-readable
2 instructions thereon which, when executed, implement the method of claim 22.

3
4 **36.** A computer system embodying the computer-readable medium of
5 claim 35.

6
7 **37.** A data structure embodied on a computer readable medium, the data
8 structure comprising:

9 one or more portions associated with at least one track of a multi-media
10 editing project, individual tracks being associated with one or more data stream
11 sources; and

12 one or more portions associated with a composite, the composite
13 comprising at least one track, said data structure being configured for use in
14 programming a software-implemented matrix switch which is configured to
15 provide a data stream defined by the multi-media editing project.

16
17 **38.** The data structure of claim 37 further comprising one or more
18 portions associated with a composite that is nested inside of another composite.

19
20 **39.** A computer system embodying the computer-readable medium of
21 claim 37.